

## solar system controller 12V/24V/36V48V 100A [MPPT solar charge controller](#)



### Feature

- 1.MPPT charge mode, conversion efficiency up to 99%.
- 2.12V/24V/36V/48V battery system automatic recognition, convenient for customers to use.
- 3.Maximum PV input voltage up to DC150V.
- 4.Controllers can be connected in unlimited parallels.
- 5.Charge mode: three stages (fast charge ,constant charge ,floating charge). To extend the life span of the battery
- 6.Discharge mode: ON/OFF mode, double time control mode, PV voltage control mode ,PV voltage+time delay mode and so on .
- 7.Recommended battery types: sealed lead acid, Vented, Gel, NiCd battery. Other types of the batteries can also be defined, such as lithium battery etc.
- 8.CE,ROHS,FCC certifications approved, other certifications can also be made based on different requirements.
9. 2 years warranty and 2~10 years extended technical service.

### Parameter

MASTER SERIES			MASTER-48BL-80A	MASTER-48BL-100A	MASTER-48BH-80A	MASTER-96BH-50A
Product category	Controller Properties		MPPT (maximum power point tracking)			
	MPPT efficiency		≥99.5%			
	Standby power		0.5W~1.2W			
	System voltage		Automatic recognition		48V	96V
	Heat-dissipation method		Air cooling			
Input Characteristics	Max.PV input voltage(VOC)		DC150V		DC300V	
	Start the charge voltage point		Battery voltage + 3V		Battery voltage + 10V	
	Low input voltage protection point		Battery voltage + 2V		Battery voltage + 5V	
	Over voltage protection point		DC150V		DC300V	
	Rated PV power	12V system	1040W	1300W	□	□
		24V system	2080W	2600W	□	□
		36V system	3120W	3900W	□	□
48V system		4160W	5200W	4160W	□	
96V system		□	□	□	5200W	
Charge Characteristics	Selectable Battery Types (Default Gel battery)		Sealed lead acid, Gel battery, Flooded (Other types of the batteries also can be defined)			
	Charge rated current		80A	100A	80A	50A
	Charging Method		3-Stage: constant current(fast charging)-constant voltage-floating charge			

LOAD Characteristics	Load voltage	The same as the battery voltage			
	Load rated current	80A	100A	80A	50A
	Load control mode	On\Off mode, PV voltage control mode, Dual-time control mode, PV + Time control mode			
Display & Communication	Display mode	High-definition LCD segment code backlight display			
	Communication mode	8-pin RJ45 port/RS485/support PC software monitoring/ support WiFi module to realize APP cloud monitoring			
Other Parameters	Protect function	Input-output over \ under voltage protection, Prevention of connection reverse protection,battery shedding protection etc.			
	Operation Temperature	-20°C~+50°C			
	Storage Temperature	-40°C~+75°C			